

Claims

1. A system for attachment of an information sensor opposite to, and at an air gap's distance from, the coder of a bearing, with said system including a cap intended to be associated with a ring of said bearing and at least partly covering the coder, characterized in that, in combination, the cap includes at least one device for attachment of the sensor to an internal surface of said cap and a device for electrical connection of said sensor with a unit designed to process the information detected, with said connection device including an internal means of connection constructed to interact with complementary means of connection provided on the sensor and, connected to said internal means, an external means of connection constructed to permit reading of the information detected.

2. A system according to Claim 1, characterized in that the cap is formed from an annular piece including a radial disk and an axial cylindrical skirt that is extended by an axial cylindrical projecting ledge for fitting said system onto the bearing ring.

3. A system according to Claim 2, characterized in that the disk includes a central bore.

4. A system according to Claim 2, characterized in that an attachment device is provided on an internal surface of the disk or on an internal surface of the skirt.

5. A system according to Claim 2, characterized in that two attachment devices are provided, respectively, on an internal surface of the disk and on an internal surface of the skirt, with the connection device being constructed to permit connection of the sensor placed in one or the other of the attachment devices.

6. A system according to Claim 1, characterized in that the attachment device includes a housing in which the sensor is to be attached, and with said housing including a means for attachment of said sensor.

7. A system according to Claim 6, characterized in that the means of attachment include two elastic splines constructed to permit clipping of the sensor within the housing.

8. A system according to Claim 6, characterized in that the means of attachment include two runners designed to cooperate with complementary forms provided on the sensor.

9. A system according to Claim 8, characterized in that the runners each include an elastic spline provided with a projection near its end, with said splines being designed to permit clipping of the sensor (1) after it is positioned in the housing.

10. A system according to Claim 1, characterized in that the internal means of connection include two connectors in a U-shape, each of the connectors constructed to receive and connect a respective connection lug provided on the sensor.

11. A system according to Claim 1, characterized in that the internal means of connection include two contactors respectively mounted in a relay in a housing provided on the internal surface of the cap between a resting position in which the contactor seals the housing and a connection position, with the passage from one position to the other being accomplished under the action of attachment of the sensor.

12. A system according to Claim 1, characterized in that the external means of connection include a connector on an external face of the cap.

13. A system according to Claim 1, characterized in that the external means of connection include a molded wire in the cap, with an end of said wire opposite the internal means of connection being provided with a connector.

14. A sensor designed to be attached to the cap of an attachment system according to Claim 1, characterized in that the sensor includes a complementary means of electrical connection designed to cooperate with the internal means of electrical connection of the cap after the sensor is attached to the cap, to establish the connection between said sensor and the unit by means of the external means of connection.

15. A sensor according to Claim 14, characterized in that the sensor includes a body of plastic material in which means of detection are molded with the complementary means of connection projecting from said body.

16. A sensor according to Claim 14, characterized in that the body is parallelepiped in shape.

17. A sensor according to Claim 14, characterized in that the complementary means of connection are formed from two lugs designed to engage the internal means of connection after the sensor is attached to the cap.

18. A sensor according to Claim 14, characterized in that the complementary means of connection are formed from two plates designed to rest on the internal means of connection when the sensor is attached to the cap.

19. A sensor according to Claim 18, characterized in that the plates are molded in the body with each plate having a free surface.

20. A sensor according to Claim 15, characterized in that an O ring is placed around the body.

21. An ensemble including an attachment system according to Claim 1, with a sensor attached and connected to the cap of said system.

22. An ensemble according to Claim 21, characterized in that the sensor is associated with the cap to allow radial reading of the information.

23. An ensemble according to Claim 21, characterized in that the sensor is associated with the cap to allow a facial reading of the information.

24. A bearing of the type that includes a fixed ring, a turning ring, and rolling elements placed between said rings, wherein an impulse generating coder is associated with the turning ring, with said bearing being characterized in that it is equipped with an ensemble according to Claim 21, with the cap of said ensemble being associated with the fixed ring.